(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

ternational Bureau



(43) International Publication Date 29 January 2004 (29.01.2004)

PCT

(10) International Publication Number WO 2004/010236 A1

(51) International Patent Classification7:

G05D 01/08

(21) International Application Number:

PCT/AU2003/000915

(22) International Filing Date:

18 July 2003 (18.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2002950271

19 July 2002 (19.07.2002) AU

- (71) Applicant (for all designated States except US): THE COMMONWEALTH OF AUSTRALIA [AU/AU]; West Avenue, Edinburgh, S.A. 5111 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHAHL, Javaan, Singh [AU/AU]; 2 Prendergast Street, Curtin, ACT 2605 (AU). STANGE, Friedrich, Gert [AU/AU]; 68 Calder Crescent, Holder, ACT 2611 (AU). BOUFFANT, Naig, Le [FR/FR]; Moulin de Keralies, F-22560 Pleumeur-Bodou (FR).

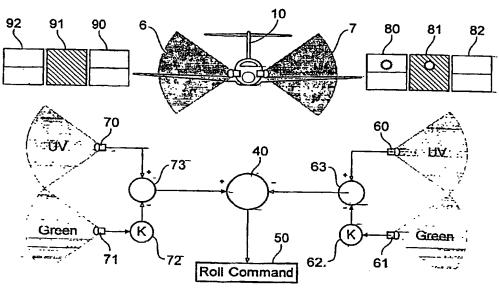
- (74) Agent: MADDERNS; Ist Floor, 64 Hindmarsh Square, Adelaide, S.A. 5000 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OPTICAL STABILIZATION SYSTEM



(57) Abstract: A method and apparatus are described for controlling the attitude of a vehicle (10) in a space having at least two opposed viewable regions (6, 7), each region being viewed by a respective first sensor (60, 70) for sensing a first frequency band of electromagnetic radiation and a respective second sensor (61, 71) for sensing a second frequency band of electromagnetic radiation, wherein respective first and second data sets from the first (60, 70) and second sensors (61, 71) for each regions (6, 7) are produced, these second data sets are subsequently modified (62, 72) and combined (63, 73) with the first data sets to form respective third data sets for each region (6, 7). The attitude of the vehicle (10) is then adjusted (40) until the third data sets are substantially equal.

